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		This document is presented as the Monthly	
		Status Report under Contract to the U.S.	÷
		Government	STAT
		The report period represented herein covers the period 1 July through 31 July, 1969.	
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	•	Progress Rep	port - for per	riod end i ng	1			STAT
		June 30,	1969		Þ	ppendix I	1	
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		Progr	re ss Report -	for period	Į.		:	STA
	,	ending Ju	ne 30, 1969			ppendix II		•
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		•				•
		PROGRAM SI	JMMARY			
	Sche	eduled Percenta	ge of Completion	n :	71 .2 %	
	A	ctual Percentag	e this Date		65 .3 %	
				•		
		There have be	en n o si gn ifica r	nt complete	d ac tivitie	e s
	during the mo	nth of July. Th	e work has been	proceeding	on schee	dule
	with particula	ir reference to a	ssembly of the	stage utili t	ies and th	ne
			s an integrated			
			the Stereocomp		ect are	
	proceeding in	_	compatible with			
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	the program.		٠.			
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		Task 1	Statements of Work, Specifications, Report Preparation	
			Scheduled percentage of completion	74%
			Actual percentage this date	74%
			No new specifications were developed o	r i ss ued
		during this rep	port period.	
		ingornorated i	Monthly reports from our subcontractors nto this document under appropriate task	
		or in the Appen		neading s
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	·			
·	Task 2	Scheduling and Planning		
	,	Scheduled percentage of completion	74%	
		Actual percentage this date	74%	
	•	No change in schedule has been made	during the	
	month.			
		The optical vendor's schedule has been	n b rou ght	
	up-to-date and	d indicates that the equipment will be p	rovided for	
	testing, a	t the plant, by December 15,	1969.	SSTAT
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		Task 3	Test and Inspec	ction Procedure	es		
		•	Scheduled perc	entage of comp	oleti o n	61%	
3			Actual percenta			53%	
	;		All test targets	and photograp	phy, for the	use of the	
= i		optical and co	orrelation vendor	s, have béen d	lelivered to	the vendor	s.
=	•		Work is procee	ding on the de	velopment o	f the detai	led
-		test procedure	es utilizing the to	argets and pho	tography.		
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	Task 04	Management, Administration and Super	vision
		Scheduled percentage of completion	74%
		Actual percentage this date	74%
	proceeding nor	Management and administrative function mally with no major departures from the	
	Management p	lan.	
			•
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		92. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
	Task 5 Meetings	
		•
	Scheduled percentage of completion 74%	
	Actual percentage of completion 74%	
	Meetings were held with customer representatives	
	the week of July 7th and the week of July 14th. During these periods, the computer programing details and the equipment installation	
	environment were discussed.	
	In addition, dirt particle counts were made on the Clean Room supply air and in the room during its periods of	STAT
	Jean Koom Bystem	TAT
	was compatible with the requirements of the Stereocomparator.	
b	However, special cleaning of all surfaces of the room were indicated to maintain a suitable condition during work	
	activity.	
		•

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	Task 6	Facilities Requirements	·
] 		Scheduled percentage of completion 98%	
		Actual percentage this date 90%	
!		The Clean Room is in operation with respect to STA	т.
	the work area	in the room and the electronic cabinet air systems.	
		The temperature control for these two systems failed	
	due to contro	ol instrument defects and replacement parts are being	
	provided by t	the vendor. It is hoped that the temperature controls	
	will be back	in operation by the end of July.	
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	•	Task 7	Main Frame and	d Structural Ele	ments		
			Scheduled perc	entage of comp	letion	98%	
			Actual percenta	ige this date		93%	
			The main frame	for the Stereoo	comparator w	as	
		completed in	September 1968.				
			No additional v	work will be sc	heduled for t	his	
	·	Task until the	e return of the Op	tical Bridge by	the optics s	ub-	,
		contractor.					
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			· .	
	Task 8	Skin		
		Scheduled percentage	of completion	44%
	·	Actual percentage this	date	30%
		The fabrication of the	external skin sectio	n s has
	been complete	d to the point where the	total assembly is n	eeded
	in order to fin	ish this Task.		
		No further work is anti	cipated until the	
	Stereocompara	tor has been completely	assembled.	
		•		
		· ·		
	e e e e e e e e e e e e e e e e e e e			

	•			**************************************		
	Task 9	Granite ar	nd Ways Asser	mbly for Stage		
		Scheduled	percentage of	f completion	98%	
		Actual per	centage this o	late	98%	
	· ·	No further	work is antic	ipated on this	Task at	
	this time.					
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	Ta	sk 10	Air Bearings			
			Scheduled perce	entage of comple	tion 98%	
			Actual percenta	ge this date	92%	
			As previously re	eported, the air b	pearings were	
		stalled on bo	oth stages in Feb			
	=	lity cabinet		will be schedule ollowing which th		
	wil	ll be tested	with the interfer	ometers.		
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	Task 11 Stage Drives
	Scheduled percentage of completion 98%
	Actual percentage this date 70%
	Installation of the stage drive assemblies on
	the right and left hand stages was completed during the month of June.
	Testing of the assemblies will be conducted
	after the utilities cabinet has been completed.
_	

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		Task 12	Film Drive and Transport System		
			Scheduled percentage of completion	86%	
		•	Actual completion this date	70%	
			The wiring for the film drive and trans	port system	
		has been part	ially completed.		
C			The left stage film drive wiring is con	plete.	
			After completion of the wiring systems	s, servo	
		compensation	of these units can proceed.	,	
		N.			

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		Task 13	Film Platen and Film Clamping			
	1.		Scheduled percentage of complet	tion	98%	`
			Actual percentage this date		88%	£L.
				j		
		,	The film clamping and film plate	n assem l	b lies are	
			namic testing pending completion of	the air i	relay logic	
		wiring.	m			
	•	b egu n.	The wiring for the modified air c	ontrol sy	stem nas	
		begun.				
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			t on a		·	
		Task 14	Film Cooling			
			Scheduled percentage of co	ompletion:	9 3 %	
			Actual percentage this date		60%	
_					-	
			There will be no further wo	rk on Film Coc	oling	
- F		until the opti	cal system arrives.		·	
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	Tasks 16, 17 and 18 Viewing Optics, Viewing Illumination, Reticle Projector and Illumination	
· · · · · · · · · · · · · · · · · · ·		
	Scheduled percentage of completion 91% Actual percentage this date 86%	
	The work of integrating the supplied optical drive equipment with the vendor's supplied optical systems was	STAT
	••••	STAT STAT
	is also performing the necessary wiring and cabling work involved in the installation. has scheduled assembly and test activities	STAT
	during their regular August annual vacation and the monitor will be in their plant during this period.	STAT
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T16, 17 & 18 - 1

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		•							
			•						
		Task 20	Genera	l Platen :	Illumina	ition			
			Schedu	led perce	en ta g e c	of complete	lon	98%	
		·	Actual	percentag	ge this	date		7 0%	
			The pla	ten illum	in atio n	equipmen	t has be	e n in stall ed	ì
F		on the Stereoc	omparato	or and wi	ll be te	sted on th	e m achi r	ne when its	
_		wiring is comp	olete. T	he units	were pr	eviously b	ench tes	sted and	t .
		performed sati	sfactoril	у.					
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	•		
	Task 21	Optical Bridge and Supports	
		Scheduled percentage of completion	96%
		Actual percentage this date	90%
		No further work is scheduled until r	eceipt
_ 	of optics fro	om subcontractor.	
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	m 1 00				
	Task 22	Interferometer Asser	nbly		
		Scheduled percentag	ge of completion	8 4 %	
		Actual percentage th	nis date	68%	
		Concern exists rega	rding the laser inter	rferometer	
	return beam	effecting the cavity ser	rvo control on the la	ser. A	
	report was p	repared	concerning this pro	blem.	STAT
		In addition, a polar	oid and quarter wave	e plate	
	sandwich ha	s been received and wi	ll be tried out as a	means of	, i
	minimizing t	he effects of the laser	on the return beam.		•
		Tests cannot be peri	formed on the interfe	erometer	
	until the	temperature control sy	stem is performing	to the	STAT
	proper speci	fications, (see Task 6)	•		
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7		Task 23	Optics Drive Assembly		
=					
]	• • • •		Scheduled percentage of	completion	84%
- 3			Actual percentage this d	ate	80%
2					
.			The main optics drive as	ssembly tests wer	e completed
=		during this rep	ort period. The simulate	ed optics systems	were driven
		by the compute	er, the A/D - D/A conver	ters, and the com	puter inter-
7		face circuitry.	The entire system displ	layed an accuracy	of 1 bit.
=			and noise present was no		
7		change.		• .	
7		· · · · · · · · · · · · · · · · · · ·	The slaved and non-serv	vo optics drives t	ests were
٥		started and sh	ould be completed during	,	
		started and si	The automatic brightnes		
.			-		mputer model
		was completed	and it is now in the fabr	neation stage.	
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	•	Task 24	Image Analysis	System				
			Scheduled perce	entage of com	npletion		7 8%	
			Actual percenta	ge this date			90%	
			Progress on thi	s task is deta	niled in	Progress	5	STAT
P		Report for the	period ending Jun	ne 30, 1969,	which is in	ncluded as		
6		Appendix I to	this report.	·				
	•		The date for ac	ceptance test	ing of this	system is		. •
		tentatively so	heduled for the w	veek of Augus	t 18 or Aug	ust 25.		
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		Task 26	Digitiz	ing Logi c Su k	o asse mbl	У			
			Schedu	led percentag	ge of com	pletion	98%		
			Actual	percentage th	ni s date		93%		
				,					
			This Ta	ask is now co	vered un	der the d	iscussion i	n	
		Task 28 - Outp	p u t Logi	c and Interfac	ces.				:
			Please	refer to this	Task.				
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	•	
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Task 27	Metric Readout	ı
	Scheduled percentage of completion	98%
	Actual percentage this date	95%
3	This Task is now covered under the Outpu	t Log ic
and Interfaces	, Task 28.	
	Please refer to this Task for a progress re	port.
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		`			* ·	<u>.</u>		
		Task 28	Output Logic and	d Interface		· .		
			Scheduled perce	ntage of com	pletion	98%		
			Actual percentag	e this date		85%		
			The tests of the	computer int	terface and A	D/DA		
		converters, w	hich was done for d.	a simulated	optics drive	test,		
			A test of the film	n and stage o	drive logic a	n d metri	c	
		readout has be	e g u n.	•	•			
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			e de la companya de La companya de la companya de l
	Task 29	Cabling	•
		Scheduled percentage of completion	98%
i 7		Actual percentage this date	9 6%
	•	Additional manufacture and checkout of	cables was
3	done during th	ne last report period.	
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=	
=	Task 30 Control Console and Chair
=	
	Scheduled percentage of completion 97%
	Actual percentage of completion 85%
	The checkout and testing of the console and its
	associated interface circuitry continued during this last month.
٥	This includes testing of the manual optical controls and readout
	digits as well as the function control pushbuttons.
	The IBM 526 punch will be used to aid in the testing
٥	of the readout characters which will begin next month.
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·					
	Task 32	Computer			
		Scheduled	percentage of completion	98%	
. ,		Actual perc	entage this date	95% .	
		No n ew wo	rk was done to the comp	ater circuitry during	
	. this last rep		ce the computer is alread		
	working.				
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F			Cahodulad name	+2~2 of	-1-44	0.00	
			Scheduled percentage		pletion	98% 9 0 %	
					· .		
			The internal cable	es in the ele	ctronic rack	s were	:
		installed and	harnessed.				
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:	Ta s k 34	Utilities, Vac	uum and Air System s		
		Scheduled per	centage of completion	87%	•
		Actual percent	age this date	80%	
		The electrical	wiring for the valves, pr	ressure	
•	switches and	l air control sole	n oids was b egu n during t	his report	
	period.	*	٠,		
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	Task 35	Vibration Abs	orption and Levelin	g ,	
		Scheduled pe	ercentage of complete	tion 90%	
		Actual perce	ntage this date	85%	
		No further w	ork is scheduled for	this Task until	
	the Optical B	ridge i s recei ve	ed from A	t this time, full	STAT
	tests of respo	on se time and s	tage deflection will	be conducted.	•
•		This delay is	necessitated by th	e requirement for	
	full weight lo	ading of the st	ages during these to	e s ts.	
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		Task 36	Overall Asser	nbly		
			•	centage of com	pletion	6 2 %
			Actual percen	tage this date		38%
			Work is conti	nuing on the me	chanical ass	embly of
		the stages wit	th respect to the	e vacuum, air a	and wiring fac	cilities.
		,		cable connect:		
			panel is being	installed in th	e rear of the	Stereo-
		comparator.	The electronic	2000mhl.,		
		completed pre-	vious to this me	assembly worl		
_		* 1	nd testing of the			
		system.				
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,				
•	Task 37	Radio Frequency Noise Suppression	•	
		Scheduled percentage of completion	0%	
		Actual percentage this date	0%	
		No work was scheduled on this Task for	the	. *
	month of July	7•		
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		Task 38	Environmental Control		٠.	
			Only duled persontage of compl	ation.	83%	
			Scheduled percentage of compl Actual percentage this date	enon	89%	
			Actual percentage time date			
			Meetings were held with the c	ustomer sit	e prepara-	
		tion consultar	nt with special reference to the	film cooling	, air system.	
			This equipment has been designated	ned and is	ready for	
			s part of the site preparation. The			
R		be fully comp	atible with the needs of the Ster	reocomparat	or.	
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	•				
:	Task 39	Reliability Ana	alysis		
		Scheduled per	centage of comple	etion 17	?%
		Actual percent	age this date	. () %
		No work was	scheduled on this	Tagk for the	month
	of July.	NO WOLK WAS S	scheddied on this	rask for the	month
•				,	
		·			
	,				
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Task 40	Installation		
	,		
	Scheduled percentage of complet		
	Actual percentage this date	18%	
	No work was scheduled or perfor	med on this task	
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		Task 42	Breadboards and Test Devices		,
		,	Scheduled percentage of completion	65%	
			Actual percentage this date	55%	
			The servo compensation and performa	ince tests were	
		completed dur	ing this report period (see Task 23).		
		,	The servo breadboards have been dis	assembled and	
	•	the required co	omponents have been shipped		STAT
П			The remaining testing of the tracking	program can be	
		done without t	he breadboards.		
			,	·	
			•		

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		. 6			
	Task 43	Computer Programmi	ng and Services		
\$		Scheduled percentag	ve of completion	89%	
		Actual percentage th		70%	·
		progres	s report for the p	eriod June 1	STA
	to June 30,	1969, is included as Ap	pendix II to this	report.	
		Informatics' comput	er programming pe	ersonnel was	
	included in	the meetings between	and the custor	mer concerning	STAT
	the review of	of the computer program	concepts for the	Stereocomparator.	
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	Task 44	Preacceptance Test in Fabrication Pla	int
		Scheduled percentage of completion	0%
•		Actual percentage this date	0%
		No work was scheduled for this Task	for the
,	month of July.		
		:	

	Declassified in Part	- Sanitized Copy A	Approved for Release 2012/08/24 : CIA-RDP79B0	0873A001400010008-1
		Task 45	Acceptance Test in Fabrication Plant	
			Scheduled percentage of completion	0%
			Actual percentage this date	0%
	,		No work was scheduled for this Task for	the
		month of July.		
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Task 46

Acceptance Test After Installation

Scheduled percentage of completion

0%

Actual percentage this date

0%

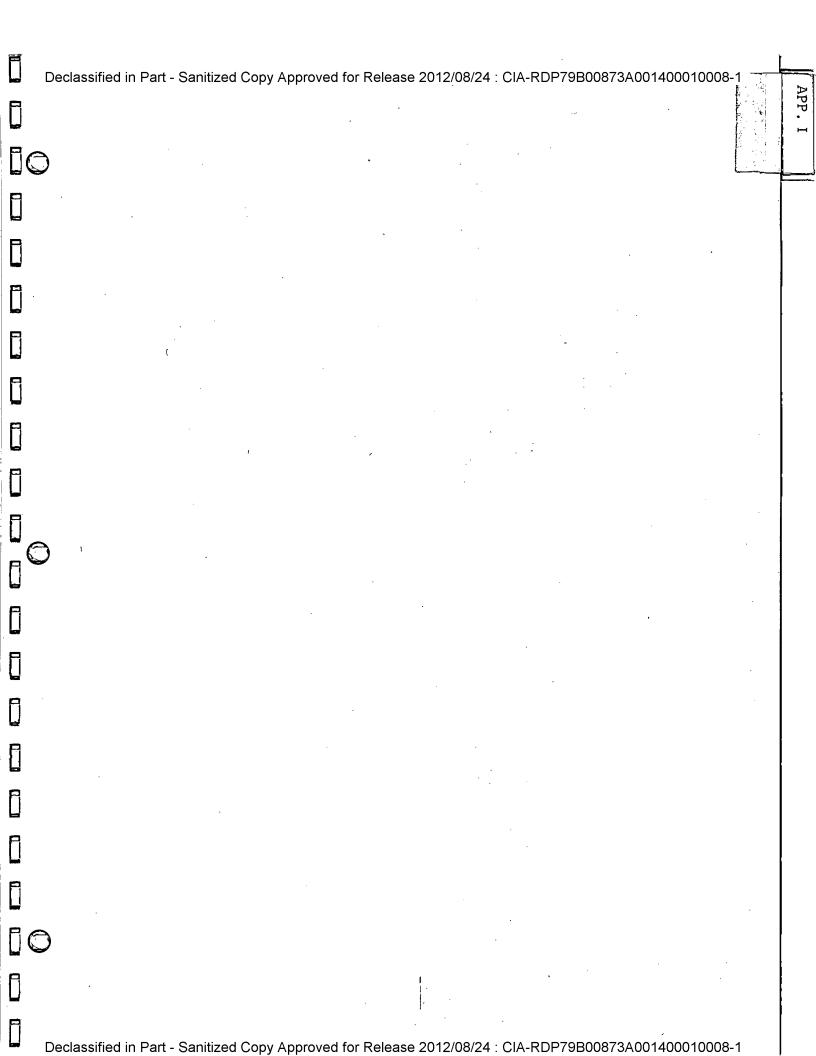
No work was scheduled on this Task for the month

of July.

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Task	(47 Instruction Ma	nual and Drawing Submit	ttal	
}	Scheduled perc	entage of completion	59%	
	Actual percenta	age this date	27%	
· · · · · · · · · · · · · · · · · · ·	The revision of	f the design drawings to	cover	
the '	"as built" status of the va			
	•			
,				

Declassified in Part	t - Sanitized Copy	Approved for I	Release 2012/08	3/24 : CIA-RDI	A-RDP79B00873A001400010008-1 etion 39% 50% List has been			
	* .		•	er.				
	Task 48	Spare Parts	: List					
		Scheduled	percentage of	completion		39%		
		Actual perc	entage this d	ate		50%		
		An addendu	ım to the Spare	e Parts List	has be	en		
÷	completed. T	his updates	the Spare Part	s List throu	gh this	repoi	·t	
		The anticip	pated life and	replacemen	t time o	of the		
	spares is pres	ently being	computed.	•				
						,		·
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	To ale 40	Operator Training
1	Task 49	Operator Training
		Scheduled percentage of completion 40%
		· · · · · · · · · · · · · · · · · · ·
1 :		Actual percentage this date 70%
3		During July, the first 80% of the Operator Training
	Manual was	delivered to the customer for their review.
		Some preliminary discussions were held relative to
1	the sending of	of customer representatives to for orientation with STAT
	respect to the	e actual operation and the computer programing aspects
 	of the Stereo	comparator.
1		It is indicated that, at about the end of 1969, the
	Stereocompar	ator would be sufficiently complete to make an operat-
	ing review (c	perator training program) of the equipment feasible.
3		This problem is thus not critical at this time. However,
si .	as the compl	etion date approaches, the necessity for planning for
	customer orio	entation is apparent.
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PROGRESS	REPORT	FOR PERIOD	ENDING	30 JUNE	1969	
•						

STAT

1.0 PROGRESS DURING REPORTING PERIOD

The test fixture support was redone using black anodized 3/8 inch aluminum tool plate. The fixture was reassembled with new gussetts and shock mounting on the blower assembly. The fixture is more rigid and durable with no noticable vibration. The plywood support was discarded.

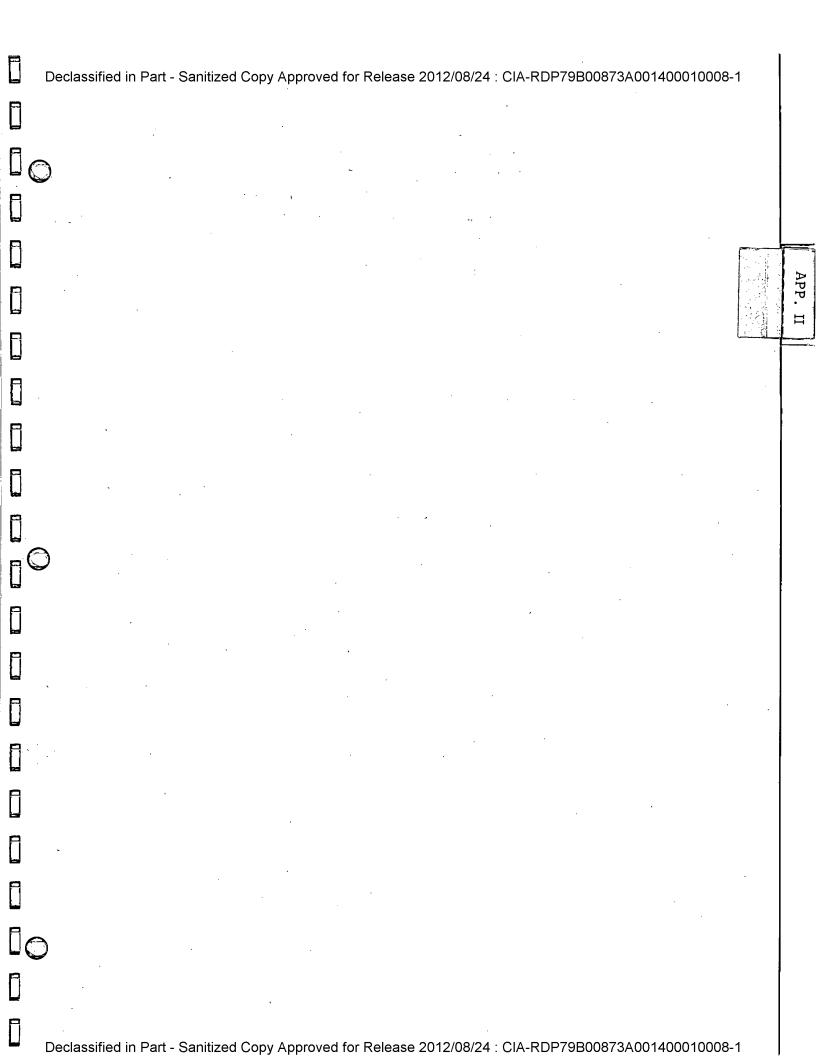
Preacceptance testing was started in June. This phase of the project is used to correct wiring difficulties and to affect circuit adjustments and changes which enable the system to perform to specifications. As a Quality Assurance measure, the test equipment used during this phase was sent out for calibration. The untimeliness of this procedure, however, caused some delays in testing. A suitable illumination meter was detained until 8 July in the process.

The S20 image dissector tubes required rewiring because of dissimilar socket connections and additional voltage requirements over the S11 tubes.

Mutual coupling effects from the 77 foot cable runs made it necessary to modify the circuit boards in the image dissector assemblies to accommodate bypass capacitors on the power supply lines and resistive bias dividers. Decoupling was extended to both modules in each video amplifier.

The Reynolds Industries high voltage cable assemblies broke down after a short period of relatively normal use. The cables were purchased with certification of high-potential testing and not subjected to unusual stress, which might destroy their high-voltage integrity. Three of the four cables developed leakage in excess of

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	- 2 -	
	500 microamperes at voltages under 500 volts (as indicated on an	
	Associated Research Inc, Hypot Junior meter). Arcing at low voltages	•
	was also observed at the connectors. The Reynolds cable assemblies	,
	will be replaced with RG 142 B/U which has a .116" core diameter as opposed to the .050" diameter of Reynolds "L" cable. Both cores are	
	teflon (FEP). AMP connectors type 10-M-3000 panel, type 101-M-3800-75	
	bulkhead, and type 101-M-1800 cable connector will be used. Cable	
	drawings will be revised and cutout dimensions forwarded at a later date.	STA
-	Limited testing and debugging continue with temporary high voltage lines. Since the image dissector assemblies are being tested without	
	their housings, an open frame fixture is used. Proper alignment to	
	make final derminations and adjustments cannot be maintained until	
	permanent connections make the use of the test fixture possible.	
	Notations of wiring and component: changes are being maintained.	•
	However, drawings will not be updated until the tests are complete.	
_	2.0 PLANS FOR NEXT PERIOD	
	Preacceptance testing will continue acceptance testing is	STAT
	currently projected to the last week of August.	
	Percentage of job completed to date - 90%.	
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	МОЛТН	LY PROGRESS REPO	T 9.	
•	. WONTH	DI INOCHESSIVEI C	71C I	
		June, 1969		P L
	·	June, 1969		•
mh: a	4 h			
	technical report is fo		od from June I to Ju	<u> </u>
1969				S
Spec	ification number DB1	001 (as modified).		:
				•
1.	At the end of the mo	nth, subroutines	•	•
	a. CONVRT	• .		
	b. DATAIN			
	c. PARMOD	•		
	d. SCANER			
•	e. FID1			
	f. TTIN			
•	g. TTIC and			
٠.	h. RECIN			
	were checked out an	d documented.		:
	•			•
	During the month, the	hese routines underw	ent considerable rec	design.
•	·	ction of subroutine T		,
	·	tself. Also, subrout		•
	been assumed by EX	·		
	,		,	
	A new entry ASCDE	C has been coded into	subrouting ASCRIN	. While
* .		CII to floating point,		
		on to meaning point,	ASCDEC decodes A	SCII to
	fixed point binary.	en la companya de la		
	A1/1		a 19 3 - 1	
		ape has been created	_	
	it has been used ver	y little because work	on the computer int	erface
	· · · · · · · · · · · · · · · · · · ·			•
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•	and D/A converters has not progressed sufficiently.	!
		•
	With most of the redesign of the non-real time program behind	
	us now, work should soon begin proceeding at an encouraging rate.	
	As of this reporting period, approximately 70% of the total contract	t
	work has been completed.	
2.	Next month, the redesign of the non-real time program will be com	n-
	pleted. Completion involves:	
	a. Redesign of FID2 and FID3.	
	b. Modifications to EXEC1 to accommodate the many changes of	•
	its subordinates.	
	c. Checkout of the stage initialization supervisor STAGIN.	•
	After completion of the redesign, the non-real time program will b	e
	integrated. It should be completely operational by the end of July.	;
3.	At the end of May the problem of how to filter the crosstalk out of	
	the correlator had not yet been resolved. This has a low priority	
	because it is not really clear that crosstalk will even be a problem.	
4.	At the time of this writing the contract extensions is in the final	
	stage of negotiation. will be transmitting	STST
	two signed copies of the agreement before the end of July.	·.
5.	will continue working second shift through the second	STA
•	week of August. After that it has been agreed that he will return	•
	to day shift for the duration of the contract.	
1		-
6.	No changes or agreements have been made requiring the contractin	α
· ·	officer's approval.	5
÷	officer a approvar.	
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7.	No other unresolv	ved matters are known to exist.		
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